

**I claim:**

1. Loperamide has the ability to improve insulin resistance via activation of opioid  $\mu$ -type receptor.

2. The effect of loperamide according to claim 1, wherein said this  
5 medicine is available to treat the disorders derived from insulin resistance.

3. The effect of loperamide according to claim 1, wherein said this  
medicine is useful for the handling of disorders caused by low function of  
opioid  $\mu$ -receptor.

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